

Safety Data Sheet

Copper(II)oxide powder

Revision Date: 7/5/2018
Date Issued: 8/22/2018

1 IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND THE COMPANY/UNDERTAKING

Product name	Copper(II)oxide powder
Product code	NO-0031-HP
CAS	1317-38-0
REACH No. :	A registration number is not available for this substance as the substance or its uses are exempted from registration, the annual tonnage does not require a registration or the registration is envisaged for a later registration deadline.
Identified uses	Laboratory chemicals, Manufacture of substances
Supplier	IoLiTec Ionic Liquids Technologies GmbH Salzstrasse 184 D – 74076 Heilbronn Germany
Telephone	+49 (0)7131-89839-0
Fax	+49 (0)7131-89839-109
Emergency telephone	+49 (0)176-84850874
Email	msds@iolitec.de

2 HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

Classification (REGULATION (EC) No 1272/2008)

Acute toxicity, Category 4, oral; H302

Specific Target Organ Toxicity - Single exposure: Respiratory tract irritation, Category 3, H335

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Hazardous to the aquatic environment, Acute Category 1; H400

Hazardous to the aquatic environment, Chronic Category 1; H410

Classification (67/548/EEC or 1999/45/EC)

Harmful if swallowed

2.2 Label elements

Labelling (REGULATION (EC) No 1272/2008, GHS)

Pictogram



Signal word

Warning

Hazard statement(s)

H302

Harmful if swallowed.

H335

May cause respiration irritation.

H412

Harmful to aquatic life with long lasting effects.

Precautionary statement(s)

P273

Avoid release to the environment.

P261

Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray .

P501

Dispose of contents/ container to local waste management company.

Caution - substance not yet tested completely.

Supplemental Hazard Statements none

Labelling (67/548/EEC or 1999/45/EC)

Hazard symbol(s)



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R-phrases(s)

R22 Harmful if swallowed.
 R52/53 Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

S-phrases(s)

S60 This material and its container must be disposed of as hazardous waste.
 S61 Avoid release to the environment. Refer to special instructions/safety data sheets.

Caution - substance not yet tested completely.

3 COMPOSITION/INFORMATION ON INGREDIENTS

Ingredient name	Contents	Health(Class)	Risk(R/No.)
Copper (II) oxide (Tenorit)	99.9%		Substance not yet fully tested!
Formula	Molecular Weight		
CuO	79.54 g/mol		

4 FIRST AID MEASURES

General Contaminated clothing should be removed and washed before being reused.

Inhalation Move the exposed person to fresh air at once. If respiratory problems, artificial respiration/oxygen. Get medical aid.

Ingestion Immediately rinse mouth and provide fresh air. Do not induce vomiting. Get medical aid.

Skin Wash the skin immediately with soap and water. Get medical aid.

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Eyes	Promptly wash eyes with plenty of water while lifting the eye lids. Continue to rinse for at least 15 minutes. Get medical aid. Continue to rinse.
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5 FIRE FIGHTING MEASURES

Extinguishing media	Use suitable fire fighting measures depending on the surrounding environment.
Special fire fighting procedures	No special procedures required.
Unusual fire & explosion hazards	Emission of toxic fumes
Protective measures in fire	Wear self-contained breathing apparatus as combustion may produce hazardous fumes.

6 ACCIDENTAL RELEASE MEASURES

Personal precautions during spill	Wear protective clothing and avoid inhalation of vapor, skin or eye contact.
Precautions to protect environment	Do not wash into water courses. Do not contaminate public drains or water supply.
Spill cleanup methods	Avoid contact with skin or inhalation of spillage and dust. Avoid dust formation. Collect and reclaim or dispose in sealed containers in license waste.

7 HANDLING AND STORAGE

Storage precautions	Do not breathe dust. Avoid contact with eyes, skin, and clothing. Avoid prolonged or repeated exposure
Storage criteria	Keep container tightly closed.

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8 EXPOSURE CONTROLS AND PERSONAL PROTECTION

Personal protective equipment

Eye/face protection

Safety glasses with side-shields conforming to EN166 Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

Skin protection

Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it.

Body Protection

Impervious clothing. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Respiratory protection

For nuisance exposures use type P95 (US) or type P1 (EU EN 143) particle respirator. For higher level protection use type OV/AG/P99 (US) or type ABEK-P2 (EU EN 143) respirator cartridges. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Exposure Limits N/A

9 PHYSICAL AND CHEMICAL PROPERTIES

Appearance Powder
Color Black

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Melting Point	1336 °C
Flammability	Not Flammable
SG/Density	6.32 g/cm ³

10 STABILITY AND REACTIVITY

Stability	No particular stability concerns.
Conditions/materials to avoid	Reducing agents, hydrogen sulfide gas, aluminium, alkali metals and alkali earth metals
Hazardous Decomposition Products	Copper and copper alloys

11 TOXICOLOGICAL INFORMATION

Acute toxicity	
LD50, oral, rat,	470 mg/kg
LD50, intratracheal, rat,	250 mg/kg
LD50, intraperitoneal, mouse,	273 mg/kg
Skin corrosion/irritation	
no data available	
Serious eye damage/eye irritation	
no data available	
Respiratory or skin sensitization	
no data available	
Germ cell mutagenicity	
no data available	
Carcinogenicity	
no data available	
Reproductive toxicity	
no data available	

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Specific target organ toxicity - single exposure

no data available

Specific target organ toxicity - repeated exposure

no data available

Aspiration hazard

no data available

Potential health effects

Ingestion

Harmful if swallowed.

Inhalation

May be harmful if inhaled. Material may be irritating to mucous membranes and upper respiratory tract.

Skin

May cause irritation

Eyes

May cause irritation

Additional Information

RTECS: Not available

Full Data on the toxicity of this product are not available. Hazardous properties cannot be excluded.

Acute toxicity

12 ECOLOGICAL INFORMATION

Environmental hazards

Do not wash into water courses. Do not contaminating public drains or water supply.

ECOTOXICOLOGICAL DATA

LC50 Fish (96 hours)

Minimum: 25,4 mg/l
Maximum: 25,4 mg/l
Median: 25,4 mg/l
Study number: 1

Reference for median: Office of Pesticide Programs 2000. Pesticide Ecotoxicity Database (Formerly: Environmental Effects Database (EEDB)). Environmental Fate and Effects Division, U.S.EPA, Washington, D.C.

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13 DISPOSAL CONSIDERATIONS

Disposal method Contact specialist disposal companies.
Dispose of in accordance with Local Authority requirements. Recover and reclaim or recycle, if practical.

14 TRANSPORT INFORMATION

UN number: UN 3077

UN proper shipping name

ADR/RID: ENVIRONMENTALLY HAZARDOUS
SUBSTANCE, SOLID, N.O.S.
(COPPEROXIDE)

IMDG: ENVIRONMENTALLY HAZARDOUS
SUBSTANCE, SOLID, N.O.S.
(COPPEROXIDE)

IATA: Environmentally hazardous substances, solid,
n.o.s. (copper oxide)

Transport hazard class(es)

ADR/RID: 9
IMDG: 9
IATA: 9

Packaging group

ADR/RID: III
IMDG: III
IATA: III

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15 REGULATORY INFORMATION

This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006.

Safety, health and environmental regulations/legislation specific for the substance or mixture

no data available

Chemical Safety Assessment

no data available

Country specific information:

Germany

Classification according to German Regulation VwVwS; Reg.no. 1401:
WGK1 - low hazard to waters

16 OTHER INFORMATION

DISCLAIMER

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